6060 Quiz 3

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1 Question 1

The correlation between agreeableness and conscient iousness is r=-.028 and the relationship between extraversion and openness is r=-.018. The agreeableness-conscient ousness correlation is not meaningfully different than the extraversion-openness correlation, $\Delta r = -.01$, 95% CI[-.11,.09], p=.85.

2 Question 2

The correlation between agreeableness and conscientiousness is r=-.03 and the relationship between agreeableness and extraversion is r=.05. The agreeableness-conscientousness correlation is not meaningfully different than the agreeableness-extraversion correlation $\Delta r = -.08$, 95% CI[-.18, .024], p=.13.

3 Question 3

When looking at the correlation between agreeableness and extraversion for each gender specifically, the correlation for men is r=.043 and the correlation for women is r=.025. However, the difference between men and women is not meaningfully different when examining the relationship between agreeableness and extraversion, $\Delta r = .017, 95\%$ CI[-.13, .17], p=.82.

4 Question 4

The rating-raises correlation (r=.59), is stronger than the rating-critical correlation (r=.16), Δr =.43, 95% CI[.067, .79], p=.023.

5 Question 5

The rating-raises correlation (r=.59), is stronger than the complaints-critical correlation (r=.19), Δr =.4, 95% CI[.015, .78], p=.05.

6 Question 6

A study utilizing a sample of N=3000, found a correlation between rating-raises (r=.03) that was different than the correlation found by a study utilizing a smaller sample of N=30 (r=.59), Δr =.56, 95% CI[.26,.76]. One can conclude that the two correlations between rating-raises differ across the two studies and did not come from the same population.

7 Question 7

The study with N=3000 is larger and likely more informative than the sample with only N=30. When the sample size is larger, the confidence interval is more precise and is a better estimate of the true population value. As such, the plausible range of the true population correlation between rating and raises is between CI 95%[.26, .76]. Based on this information, one can conclude that there is likely a moderate, positive correlation between the ratings and raises variables. However, further studies are encouraged so a meta analysis can be done to make a more confident conclusion about the true relationship.